**Catapult Design Project**

**Name:\_\_\_\_\_\_\_\_\_\_\_**

**Outcomes**

* **Design and construct devices that employ energy storing or energy consuming components that will cause motion.**
* **Recognize the need for control in mechanical devices, and apply control mechanisms where necessary.**

**The partner I chose to work with for this project is\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

Draw and label your plan in the box below

The materials we will need for our catapult are:

* spoon

Explain what you will use as a control mechanism, and how it will work

Draw and label a picture of your catapult after it is built

Testing Your Catapult

* Accuracy – how well could your catapult hit a given target?

Test #1- Hit the target - yes no

Test #2 - Hit the target - yes no

Test #3 - Hit the target - yes no

Draw a diagram showing how you tested the accuracy of your catapult.

What did you use as a target?

Did the control mechanism work? Yes no

* Distance – How far can your catapult launch an object?

Test # 1 – Distance \_\_\_\_\_\_\_\_\_\_\_\_

Test # 2 – Distance \_\_\_\_\_\_\_\_\_\_\_\_

Test # 3 – Distance \_\_\_\_\_\_\_\_\_\_\_\_

Evaluate your design

|  |  |
| --- | --- |
| Strengths | Weaknesses |
|  |  |

List any changes you would make to your design

Did you enjoy this project?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ why? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_

Did you work well with your partner? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_